

## CLAIMS:

1. A device (10) for wireless control of a lamp (30), the device comprising:  
— a control interface (4, 6), and  
— a body for emitting light

wherein the control interface is connected to a mains network (1) comprising at least two  
5 mains wires, and wherein at least one of the mains wires is used as a first antenna for wireless control of the lamp.

2. A device according to claim 1, wherein the control interface (4) is connected  
to the at least one of the mains wires (1) through a capacitive circuit (5).

3. A device according to claim 2, wherein the lamp is a fluorescent lamp (30),  
and wherein the capacitive circuit (5) is capable of withstanding the ignition voltage  
necessary to activate the fluorescent lamp.

4. A device according to claim 1, wherein the control interface (6) is coupled to  
the at least one of the mains wires (1) through an inductive coupling (7).

5. A device according to claim 1, wherein the control interface (4, 6) is capable  
of receiving and/or transmitting a radio frequency (RF) signal via the first antenna.

6. A device according to claim 1, further including a user control (40) and  
wherein the user control comprises a second antenna (9) so that signals can be transmitted to  
the first antenna.

7. A device according to claim 1, further including a user control (40) and  
wherein the user control comprises a second antenna (9) so that signals can be received from  
the first antenna.

8. Use of at least one of the mains wires (1) connected to a lamp (30) as an antenna for wireless control of the lamp.

9. A method of transmitting and/or receiving signals between a lamp (30) comprising a first antenna and a user unit comprising a second antenna (9), wherein at least a section of one of the mains wires (1) connected to the lamp is the first antenna.